

ABSTRACT OF THE DISCLOSURE

A network system has a plurality of nodes being operated by their communication application programs. In the network system, each of the nodes includes a transmission rate control module for obtaining a communication attribute required for controlling a communication band from the communication application program, a band information managing table for storing the obtained communication attribute, a band information transmitting module for delivering the band information of the local node to all the other nodes connected with the network, a band information receiving module for receiving the band information delivered by the band information transmitting module of another node and storing the band information in the band information managing table. The transmission rate control module is served to obtain the current band traffic on the basis of the band information stored in the band information managing table and perform the band control.